

What is claimed is:

1 1. A deflectable thermometer probe comprising:
2 a bendable probe body having a hollow pipe;
3 a hollow tip member secured to the bendable probe body
4 and having a thermal contact surface;
5 a thermal sensor mounted on the inside of the thermal
6 contact surface of the hollow tip member, for
7 sensing the temperature of the thermal contact
8 surface and producing a temperature signal;
9 a set of lead wires coupled to the thermal sensor for
10 transmission of the temperature signal; and
11 a deflectable member having a main portion disposed in
12 the hollow pipe of the bendable probe body, wherein
13 deformation of the main portion occurs when the
14 bendable probe body is subjected to a force, and the
15 deformation cannot be undone by a return force from
16 the bendable probe body when the applied force is
17 removed, thereby the bendable probe body is
18 sustained in a bent form.

1 2. The probe as recited in claim 1 wherein the main
2 portion of the deflectable member is constructed by a
3 deflectable metal wire.

1 3. The probe as recited in claim 1 wherein the hollow
2 pipe has at least a portion with a diameter greater than that
3 of the main portion of the deflectable member.

1 4. The probe as recited in claim 1 wherein the hollow
2 pipe provides a space for the deformation of the main portion
3 of the deflectable member.

1 5. The probe as recited in claim 1 wherein the lead wires
2 run through the hollow pipe in the bendable probe body.

1 6. The probe as recited in claim 1 wherein a protecting
2 head formed at a front end of the deflectable member is
3 disposed in the hollow tip member to avoid the deflectable
4 member cutting off the lead wires.

1 7. The probe as recited in claim 1 wherein a groove is
2 defined in the bendable probe body's end portion and a
3 corresponding hook formed at a back end of the deflectable
4 member is embedded in the groove.

1 8. A thermometer with a deflectable probe, comprising:
2 a body member including a bendable probe body and a
3 display portion, the bendable probe body having a
4 hollow pipe;
5 a hollow tip member secured to the bendable probe body
6 and having a thermal contact surface;
7 a thermal sensor mounted on the inside of the thermal
8 contact surface of the hollow tip member, for
9 sensing the temperature of the thermal contact
10 surface and producing a temperature signal;
11 a set of lead wires coupled to the thermal sensor for
12 transmission of the temperature signal;
13 a deflectable member having a main portion disposed in
14 the hollow pipe of the bendable probe body, wherein
15 deformation of the main portion occurs when the
16 bendable probe body is subjected to a force, and the
17 deformation cannot be undone by a return force from
18 the bendable probe body when the applied force is
19 removed, thereby the bendable probe body is
20 sustained in a bent form; and
21 a display mounted on the display portion and connected to
22 the lead wires to receive the temperature signal for
23 display of a corresponding temperature reading.

1 9. The thermometer as recited in claim 8 wherein the main
2 portion of the deflectable member is constructed by a
3 deflectable metal wire.

1 10. The thermometer as recited in claim 9 wherein the
2 deflectable metal wire is made of copper.

1 11. The thermometer as recited in claim 8 wherein the
2 hollow pipe has at least a portion with a diameter greater
3 than that of the main portion of the deflectable member.

1 12. The thermometer as recited in claim 11 wherein the
2 lead wires run through the hollow pipe in the bendable probe
3 body.

1 13. The thermometer as recited in claim 8 wherein the
2 hollow pipe provides a space for the deformation of the main
3 portion of the deflectable member.

1 14. The thermometer as recited in claim 8 wherein a
2 protecting head formed at a front end of the deflectable
3 member is disposed in the hollow tip member to avoid the
4 deflectable member cutting off the lead wires.

1 15. The thermometer as recited in claim 9 wherein a groove
2 is defined in the bendable probe body's end portion and a
3 corresponding hook formed at an end of the deflectable metal
4 wire is embedded in the groove.

1 16. The thermometer as recited in claim 9 wherein the
2 deflectable metal wire has a diameter of from 0.5 mm to 2.0
3 mm.

1 17. A deflectable thermometer probe comprising:
2 a bendable probe body having a hollow pipe;
3 a hollow tip member secured to the bendable probe body;
4 a deflectable member having a main portion disposed in
5 the hollow pipe of the bendable probe body; and
6 a space formed between the hollow pipe and the main
7 portion of the deflectable member for deformation of
8 the main portion.